This is Q3 of the assignment

```
t = -1:0.001:1;
t_temp = -2:0.001:2;
l = length(t);

x = u(t);
```

```
x1_t = t + 0.3*ones(l);
x1 = u(x1_t) - u(t);
```

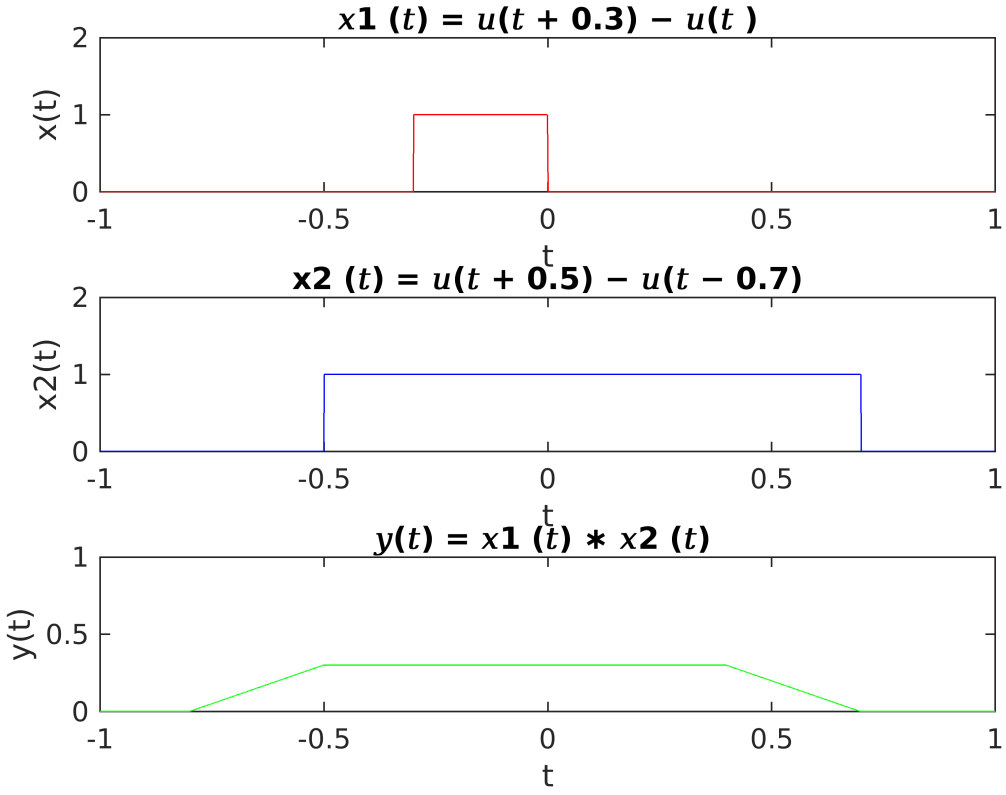
```
x2_t_1 = t + 0.5*ones(l);
x2_t_2 = t - 0.7*ones(l);
x2 = u(x2_t_1) - u(x2_t_2);
```

```
y = conv(x1,x2)/1000;
```

```
subplot(3,1,1);
plot(t,x1,'r');
title('1 () = ( + 0.3) − ( )');
ylabel('x(t)');
xlabel('t');
axis([-1 1 0 2]);

subplot(3,1,2);
plot(t,x2,'b');
title('x2 () = ( + 0.5) − ( − 0.7)');
ylabel('x2(t)');
xlabel('t');
axis([-1 1 0 2]);

subplot(3,1,3);
plot(t_temp,y,'g');
title('() = 1 ()  2 () ');
ylabel('y(t)');
xlabel('t');
axis([-1 1 0 1]);
```


x1 (t) = u(t + 0.3) − u(t)
x(t)
t
x2 (t) = u(t + 0.5) − u(t − 0.7)
x2(t)
t
y(t) = x1 (t) ∗ x2 (t)
y(t)
t